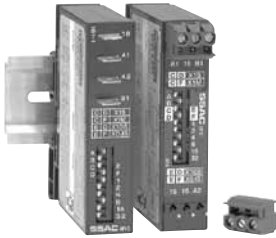# Switch Adjustable Universal Timer
DSQU/DSTU MicroTime
Timing Module

4

■ 17.5 mm Package for High Rail Density

■ Microprocessor Controlled with +/-0.1% Timing Accuracy

■ Multimode: 5 Selectable Functions

■ Multirange: Switch Adjust from 0.1 s ... 63 m

■ Multivoltage: 24 ... 240 V AC or 9 ... 110 V DC

■ 0.7 A Steady, 10 A Inrush Rated Solid State Output

Approvals:

Description

The DSQU/DSTU Series of 17.5 mm, switch adjustable, universal solid state timers offer multiple functions, voltages, and time delay ranges. Choose one of 5 functions and 4 time delay ranges via 4 selection switches located on top of the unit. Six switches adjust the time delay through the selected range.

Adjustment

Time Delay Adjustment

R		M	
0.1 ... 6.3s	X0.1s	C E / D F	0.1s
1 ... 63s	X1s	C E / D F	1s
10 ... 630s	X10s	C E / D F	10s
1 ... 63m	X1m	C E / D F	1m

Add switches in ON Position
TD = 2+8+16=26
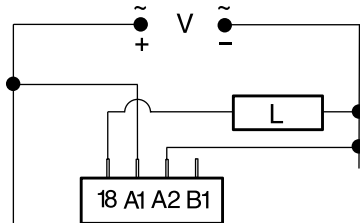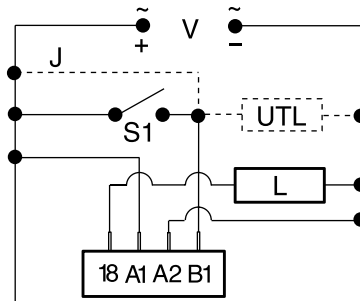
DOM = Delay On Make   R = Range
SS = Single Shot/Interval   M = Multiplier
R = Recycling   S = Setting
DOB = Delay On Break   I = Increments of Time

Function

Delay on Make
Interval
Recycling
Delay on Break
Single Shot

R = Reset   TD = Time Delay
t = Incomplete Time Delay
TD1 = TD2

For Function Descriptions, See Timer Function Section

Connection

Delay on Make & Recycling

Single Shot, Interval & Delay on Break

V = Voltage   L = Load   J= Wire Required for Interval Operation
S1= Initiate Switch   UTL = Optional Untimed Load

Available Models-

•DSQUA3   •DSQUD3   •DSTUA3
•DSTUD3

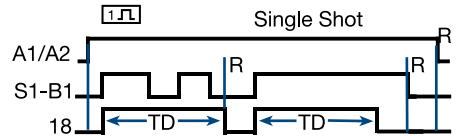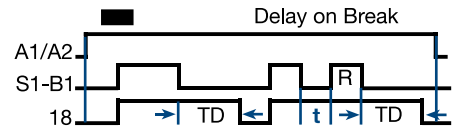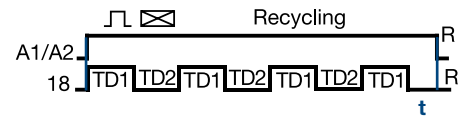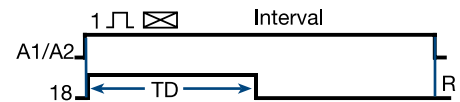### Don't see what you need? Call us for a minimum quantity and price quote!

Ordering Table

X	X	X
Series	**Input**	**Base Adaptors**
DSQU - Quick Connects	**A** - Universal AC Voltage (24 ... 240 V AC)	**3** -Both - Surface & DIN Rail Adaptors, with Quick Mount Fasteners
DSTU - Terminal Blocks	**D** - Universal DC Voltage (9 ... 110 V DC)	

Example P/N: DSQUA3,   DSTUD3

Accessories

Female quick connect P/Ns:

P1015-13 (AWG 10/12)
P1015-64 (AWG 14/16)
P1015-14 (AWG 18/22)

See accessory pages for specifications.

DSQU2B01 09.10

Switch Adjustable Universal Timer
DSQU/DSTU MicroTime
Timing Module

Technical Data

Time Delay	
Type	Microcontroller based with ceramic resonator and watchdog circuitry
Adjustment and Range*	6 switches adjust the time delay;
	2 switches select 1 of 4 multipliers;
	x0.1s = 0.1 ... 6.3 s in 0.1 s increments
	x1s = 1 ... 63 s in 1 s increments
	x10s = 10 ... 630 s in 10 s increments
	x1m = 1 ... 63 m in 1 m increments
Repeat Accuracy	+/-0.1% or +/-20 ms, whichever is greater
Setting Accuracy	+/-2% or +/-50 ms, whichever is greater
Reset Time	≤ 300 ms
Initiate Time	Single Shot & Delay on Break: ≤ 32 ms
Time Delay vs. Temp. & Voltage	+/-2% or +/-50 ms, whichever is greater
Input	
Voltage	AC: 24 ... 240 V AC; -20% ... +10%
	DC: 9 ... 110 V DC; -0% ... +20% @ -25°C
	9.4 ...110 V DC; -0% ... +20% @ -40°C
AC Line Frequency	50 ... 60 Hz
DC Ripple	≤ 10%
Output	
Type	Solid state
Form	Normally Open
Rating	0.7 A steady state, 10 A inrush
Voltage Drop	AC: ≅ 2.5 V at 0.7 A; DC: ≅ 1.5 V at 0.7 A
Protection	
Surge	IEEE C62.41-1991 Level A
Circuitry	Encapsulated
Dielectric Breakdown	≥ 2000 V RMS terminals to mounting surface
Polarity	DC units are reverse polarity protected
Mechanical	
Mounting	Two base adaptors are available
DIN Rail	Snap on to 32 mm DIN 1 & 35 mm DIN 3 rail
Surface	Two #6 (M3.5 x 0.6) screws or quick mount fasteners
Termination	
DSQU	0.25 in. (6.35 mm) male quick connect terminals
DSTU	0.197 in. (5 mm) push-on terminal blocks for up to #14 AWG (2.5 mm²) wire
Environmental	
Operating Temperature	-40°C ... +60°C
Storage Temperature	-40°C ... +85°C
Humidity	95% relative, non-condensing
Weight	≅ 4.2 oz (119 g)

*For CE approved applications, power must be removed from the unit when a switch position is changed.

Mechanical View

TB = Push-on Terminal Blocks

Inches (Millimeters)

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• denotes a preferred product